Developing for a Managed Client Environment

Session 618

Developing for a Managed Client Environment

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Introduction

- Mac OS X Managed Desktop
- One year later—Mac OS X is managed
- What have we learned
- What you need to know
  - And do...

What You'll Learn

- Managed environment
  - Even with no Apple Desktop Management preference data, you are still managed
  - Customer usage models
- Summary of Apple Desktop Management
  - What it is—what it is not
  - What we have learned
- Apple Desktop Management going forward
  - New for 10.3
  - What you "need" to do

Customer Usage Models

- One-to-one deployment
  - User has physical access but no admin access
- IT deployment
  - All aspects of machine are managed from Disks-Applications—Network accounts
- Capabilities
  - Primarily application access control
- Mobile user model
  - IBooks with preferences and access controls—network ID
- Others…

What It is…What It is Not…

- Apple Managed Desktop
  - Method for managing resources
    - People, equipment settings, applications
- Workgroup manager
  - Directory editor
- We set preference data—locations—xml data
  - We do no actions outside of mounting and writing xml
- Not ACL

Managed Environment

Users

- Home directories
  - Preferences
    - Absolute paths are “bad”
    - Do not “require” specific folders
      - Customers customize
  - Allow one install per CPU
    - No by host settings please
    - Multiple users of the machine
  - Assume non local access
  - Apple Desktop Management and capabilities

Workgroup Manager

- Manage some system level preferences only
  - Per user/group/computer list
- Workgroup manager setting non MCX Data
  - Home directories
  - Group volumes
- Directory Centric

New for 10.3

- Mobile accounts
- Additional login window options
  - Auto logout
  - Multi-login
  - Mount additional share points
- Universal access
- Application access
  - Deny list
  - Allow “Unix Tools”

Workgroup Manager Demo

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What We Have Learned

- MacOS X is a managed environment
  - From user accounts to file access
- Shipping since 10.2
  - Deployment just beginning to happen
- Preference storage
  - Cache files locally where possible
  - prevent network bottlenecks
- Document access
  - Multiple user environments are a factor

What We Have Learned

- Deny Lists as well as Allow Lists
  - Users are restricting access
    - Errors when not all utilities executable
- Users access their Home Directories over Airport
- Users want application preferences to be manageable

Application Preferences
No Net Demo

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Development Guidelines

- Your product will be used in a Managed Environment
  - Test with the Server Product and Capabilities
- Assume applications access will be controlled
  - Identify Helper applications clearly in your documentation
  - Minimize the use of unbundled utilities
    - Admins cannot add them to list of “Approved” applications
- Your product will be used on the network
  - Optimize I/O where possible

Development Guidelines

- Do not assume your file system configuration will be the user's configuration
  - No hard coding file paths
- Use CF preferences
  - Rolling your own may mean your applications might not work well in the future

Wrap Up

Who to Contact

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Roadmap

611 Managed Desktop Technologies	Nob Hill Wed., 2:00pm

Q&A

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